

## EAST Search History

| Ref # | Hits | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------|------------------|---------|------------------|
| L1    | 1057 | 375/147.CCLS.   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/11/14 08:56 |
| L2    | 1345 | 375/343.CCLS.   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/11/14 08:56 |
| S1    | 1097 | 375/355.CCLS.   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 07:31 |
| S2    | 92   | S1 AND (frequency WITH divide)  | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 07:33 |
| S3    | 73   | S2 AND @ad<"20030501"   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:09 |
| S4    | 858  | S1 AND @ad<"20030501"   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:15 |
| S5    | 179  | S4 AND divide   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:15 |
| S6    | 106  | S5 NOT S2   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:29 |
| S7    | 0    | S6 AND S2   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:29 |
| S8    | 198  | S6 OR S2  | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:29 |
| S9    | 679  | S4 NOT S8   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 08:32 |
| S10   | 208  | S9 AND "phase locked loop"  | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 09:02 |
| S11   | 198  | S8 NOT S10  | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 09:03 |
| S12   | 406  | S8 OR S10   | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 09:03 |
| S13   | 471  | S4 NOT S12  | US-PGPUB;<br>USPAT           | OR               | ON      | 2007/08/20 09:03 |
| S14   | 6    | ("5740213"   "5828250"   "5907253"   "6011732"   "6035409"   "6285726").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/08/20 10:10 |
| S15   | 8    | ("6901126").URPN.   | USPAT                        | OR               | ON      | 2007/08/20 10:11 |
| S16   | 13   | ("20020075981"   "4590602"   "5301196"   "5727037"   "5736961"   "6028903"   "6057739"   "6100722"   "6252443"   "6288589"   "6476653"   "6822483"   "6910144").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2007/08/20 10:12 |
| S17   | 0    | ("7197102").URPN.   | USPAT                        | OR               | ON      | 2007/08/20 10:13 |

## EAST Search History

|     |      |   |                              |    |    |                  |
|-----|------|---|------------------------------|----|----|------------------|
| S18 | 9    | ("4672597"   "4704711"   "5440532"   "5553055"   "5559513"   "5579004"   "5589830"   "5590100"   "5848047").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:13 |
| S19 | 2    | ("5987082").URPN.   | USPAT                        | OR | ON | 2007/08/20 10:14 |
| S20 | 12   | ("4841489"   "4881059"   "4910755"   "5105447"   "5134637"   "5196853"   "5197082"   "5260836"   "5282223"   "5313496"   "5363416"   "5450450").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:15 |
| S21 | 8    | ("20010026179" "4630283" "4672639" "5187479" "5315299" "5977822" "6125157" "6247138").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:16 |
| S22 | 2    | ("6008676" "6388492").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:16 |
| S23 | 0    | ("2003/0021369").URPN.  | USPAT                        | OR | ON | 2007/08/20 10:17 |
| S24 | 9    | ("20020085656"   "3980826"   "4821297"   "5467040"   "6034558"   "6151356"   "6178212"   "6493320"   "6496540").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:17 |
| S25 | 8    | ("20020056069"   "20020133730"   "20030061564"   "5587709"   "5892631"   "6229861"   "6266799"   "6868134").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:17 |
| S26 | 0    | ("7142621").URPN.   | USPAT                        | OR | ON | 2007/08/20 10:18 |
| S27 | 4    | ("5850422"   "6031886"   "6262611"   "6373911").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:18 |
| S28 | 4    | ("4841551"   "5068628"   "5415172"   "5886552").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:18 |
| S29 | 5    | ("6009134").URPN.   | USPAT                        | OR | ON | 2007/08/20 10:20 |
| S30 | 18   | ("20010006544"   "20020021153"   "20030185327"   "4424486"   "4816775"   "5485490"   "5570066"   "5920216"   "6002279"   "6122336"   "6310498"   "6363124"   "6397042"   "6473470"   "6509773"   "6570946"   "6901126"   "6922109").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:20 |
| S31 | 6    | ("3790892"   "4513427"   "5436938"   "5661419"   "5771264"   "5875219").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 10:21 |
| S32 | 8    | ("6028903").URPN.   | USPAT                        | OR | ON | 2007/08/20 10:23 |
| S33 | 8370 | 375/354-376.CCLS.   | USPAT                        | OR | ON | 2007/10/29 09:00 |
| S34 | 1098 | S33 AND "clock recovery"  | USPAT                        | OR | ON | 2007/08/20 10:23 |

## EAST Search History

|     |       |   |                    |    |    |                  |
|-----|-------|---|--------------------|----|----|------------------|
| S35 | 645   | S34 AND "phase locked loop"   | USPAT              | OR | ON | 2007/08/20 10:23 |
| S36 | 616   | S35 AND @ad<"20030501"  | USPAT              | OR | ON | 2007/08/20 10:34 |
| S37 | 1097  | 375/355.CCLS.   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S38 | 92    | S37 AND (frequency WITH divide)   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S39 | 858   | S37 AND @ad<"20030501"  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S40 | 179   | S39 AND divide  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S41 | 106   | S40 NOT S38   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S42 | 198   | S41 OR S38  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S43 | 679   | S39 NOT S42   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S44 | 208   | S43 AND "phase locked loop"   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S45 | 406   | S42 OR S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:23 |
| S46 | 563   | S36 NOT S45   | USPAT              | OR | ON | 2007/08/20 10:23 |
| S47 | 53    | S36 NOT S46   | USPAT              | OR | ON | 2007/08/20 10:25 |
| S48 | 10236 | 375/354-376.CCLS.   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 11:00 |
| S49 | 1418  | S48 AND "clock recovery"  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:37 |
| S50 | 856   | S49 AND "phase locked loop"   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:35 |
| S51 | 824   | S50 NOT S42   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:36 |
| S52 | 1208  | S49 AND @ad<"20030501"  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:38 |
| S53 | 9     | ("4847875" "5301206" "5321369" "5455540" "5495170" "5550515" "5886536" "5953386" "5953386" "6194927").PN. | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 10:38 |
| S54 | 0     | 375/354-376.CCLS. WITH (variable ADJ2 delay)  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 11:01 |
| S55 | 608   | 375/354-376.CCLS. AND (variable ADJ2 delay)   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 11:01 |
| S56 | 510   | S55 AND @ad<"20030501"  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 11:01 |
| S57 | 209   | S56 AND "phase locked loop"   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/20 11:47 |

## EAST Search History

|     |        |   |                              |    |    |                  |
|-----|--------|---|------------------------------|----|----|------------------|
| S58 | 2      | ("2003/0223525").URPN.  | USPAT                        | OR | ON | 2007/08/20 11:05 |
| S59 | 7      | ("20020097825" "20030080818" "20030165208" "5479126" "6011822" "6255873" "6292061" "6320435" "6385265" "6775344").PN. | USPAT                        | OR | ON | 2007/08/20 11:05 |
| S60 | 3      | ("5329254"   "5382921"   "5418822").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/08/20 11:30 |
| S61 | 39     | ("5687202").URPN.   | USPAT                        | OR | ON | 2007/08/20 11:31 |
| S62 | 192758 | "375"/  | US-PGPUB;<br>USPAT           | OR | ON | 2007/08/20 11:47 |
| S63 | 1533   | 375/376.CCLS. AND delay   | US-PGPUB;<br>USPAT           | OR | ON | 2007/08/20 11:47 |
| S64 | 1288   | S63 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/08/20 11:48 |
| S65 | 1193   | S64 NOT S57   | US-PGPUB;<br>USPAT           | OR | ON | 2007/08/20 11:48 |
| S66 | 551    | S64 AND sample  | US-PGPUB;<br>USPAT           | OR | ON | 2007/08/20 11:49 |
| S67 | 10375  | 375/354-376.CCLS.   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:06 |
| S68 | 495    | S67 AND "variable delay"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 09:23 |
| S69 | 407    | S68 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 09:00 |
| S70 | 197    | S69 AND "phase locked"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 09:00 |
| S71 | 39     | S67 AND ("variable delay" WITH feedback)  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 09:23 |
| S72 | 30     | S71 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 09:23 |
| S73 | 10     | ("2770730"   "3662277"   "3769607"   "3859466"   "3942115"   "4282493"   "4297649"   "4336505"   "4420723").PN.       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 09:32 |
| S74 | 15     | ("4521745").URPN.   | USPAT                        | OR | ON | 2007/10/29 09:32 |
| S75 | 4      | ("5457718"   "5544203"   "5790612"   "5910740").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 09:43 |
| S76 | 19     | ("6157690").URPN.   | USPAT                        | OR | ON | 2007/10/29 09:44 |
| S77 | 6      | ("3790892"   "4513427"   "5436938"   "5661419"   "5771264"   "5875219").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 09:47 |
| S78 | 8      | ("6028903").URPN.   | USPAT                        | OR | ON | 2007/10/29 09:48 |

## EAST Search History

|     |      |   |                              |    |    |                  |
|-----|------|---|------------------------------|----|----|------------------|
| S79 | 13   | ("20020075981"   "4590602"   "5301196"   "5727037"   "5736961"   "6028903"   "6057739"   "6100722"   "6252443"   "6288589"   "6476653"   "6822483"   "6910144").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 09:51 |
| S80 | 0    | ("7197102").URPN.   | USPAT                        | OR | ON | 2007/10/29 09:53 |
| S81 | 5    | ("3573649"   "4061979"   "4825437"   "5028885"   "5036298").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 10:46 |
| S82 | 15   | ("5557648").URPN.   | USPAT                        | OR | ON | 2007/10/29 10:47 |
| S83 | 3    | ("6134280"   "6144708"   "6347126").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 11:05 |
| S84 | 2    | ("6614840").URPN.   | USPAT                        | OR | ON | 2007/10/29 11:05 |
| S85 | 120  | 375/354-376.CCLS. AND "duty ratio"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:07 |
| S86 | 93   | S85 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:09 |
| S87 | 1    | ("5397945").PN.   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:10 |
| S88 | 2525 | 375/376.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:21 |
| S89 | 2096 | S88 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:21 |
| S90 | 1295 | S89 AND delay   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:22 |
| S91 | 135  | S89 AND "variable delay"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:22 |
| S92 | 121  | S91 NOT S71   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:31 |
| S93 | 373  | S67 AND (delay WITH output WITH oscillator)   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:31 |
| S94 | 309  | S93 AND @ad<"20030501"  | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:31 |
| S95 | 279  | S94 NOT S92   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:31 |
| S96 | 270  | S95 NOT S71   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:31 |
| S97 | 14   | ("4611230").URPN.   | USPAT                        | OR | ON | 2007/10/29 11:43 |
| S98 | 4    | ("4025951"   "4231064"   "4298890"   "4521745").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/10/29 11:44 |
| S99 | 1    | "6259755".pn.   | US-PGPUB;<br>USPAT           | OR | ON | 2007/10/29 11:52 |

## EAST Search History

|          |     |                                    |                    |    |    |                  |
|----------|-----|------------------------------------|--------------------|----|----|------------------|
| S10<br>0 | 1   | "6154511".pn.                      | US-PGPUB;<br>USPAT | OR | ON | 2007/10/29 11:53 |
| S10<br>1 | 1   | "20010010670"                      | US-PGPUB;<br>USPAT | OR | ON | 2007/10/29 11:53 |
| S10<br>2 | 14  | "6236696"                          | US-PGPUB;<br>USPAT | OR | ON | 2007/10/29 11:53 |
| S10<br>3 | 1   | "6236696".pn.                      | US-PGPUB;<br>USPAT | OR | ON | 2007/10/29 12:00 |
| S10<br>4 | 2   | "20030091138"                      | US-PGPUB;<br>USPAT | OR | ON | 2007/10/29 12:00 |
| S10<br>5 | 120 | 375/354-376.CCLS. AND "duty ratio" | US-PGPUB;<br>USPAT | OR | ON | 2007/10/30 09:34 |
| S10<br>6 | 16  | TOTSUKA.IN. AND HIROFUMI.IN.       | US-PGPUB;<br>USPAT | OR | ON | 2007/10/30 09:34 |
| S10<br>7 | 11  | TAGAMI.IN. AND HITOYUKI.IN.        | US-PGPUB;<br>USPAT | OR | ON | 2007/10/30 09:34 |